

a fluorescent composition covering the transparent film substrate and comprising a fluorescent dye, a film-forming polymer, a plasticizer, a surfactant and a light stabilizer; and a primer layer placed between the substrate and the fluorescent composition; wherein at least one of the substrate, the fluorescent composition and the primer layer comprises a material providing effective adhesion of the fluorescent composition to the substrate or the primer layer so as to prevent formation on an inter-layer boundary of non-fluorescent poly-molecular associates of fluorescent dyes causing quenching of fluorescence.

12. The disc of claim 11, wherein the primer comprises a substance selected from the group consisting of liquid silica glass, polyvinyl alcohol, thermosetting resins, polyorganosiloxanes and latexes.

13. The disc of claim 11, wherein the substrate comprises a substance selected from the group consisting of polyvinyl chloride and its co-polymers.

Sub B1 14. The disc of claim 11, wherein the film-forming polymer comprises a substance selected from the group consisting of polyvinyl chloride and its co-polymers, chlorinated polyvinyl chloride and nitrocellulose. *B*

15. The disc of claim 11, wherein the surfactant comprises a substance selected from the group consisting of butyl glycol, propylene glycol, dimethyl glycol and diethyl glycol.

16. The disc of claim 11, wherein the disc is a multi-layer disc having a plurality of said information layers.

17. A method of increasing a fluorescent signal level from a fluorescent single- or multi-layer optical disc for storing information, the disc comprising at least one information layer, said method comprising:

(a) forming said at least one information layer from:

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Cont.

a transparent film substrate;
a fluorescent composition covering the transparent film substrate and comprising a fluorescent dye, a film-forming polymer, a plasticizer, a surfactant and a light stabilizer; and
a primer layer placed between the substrate and the fluorescent composition;
wherein at least one of the substrate, the fluorescent composition and the primer layer comprises a material providing effective adhesion of the fluorescent composition to the substrate or the primer layer so as to prevent formation on an inter-layer boundary of non-fluorescent poly-molecular associates of fluorescent dyes causing quenching of fluorescence; and
(b) heating said at least one information layer at 100-120°.

18. The method of claim 17, wherein step (a) comprises providing a plurality of said information layers such that the disc is a multi-layer disc.

REMARKS

The Office Action dated May 3, 2001, has been carefully considered. In response thereto, the present application has been amended in a manner which is believed to overcome the outstanding grounds of rejection. Therefore, reconsideration and withdrawal of the outstanding Office Action are respectfully solicited in view of the foregoing amendments and the following remarks.

Newly added claims 11-18 have been written to conform to 35 U.S.C. §112, second paragraph, and particularly to conform to the requirements set forth on page 2 of the Office Action. Therefore, the rejection of claims 1-10 on that ground is moot.

The Applicants further submit that the subject matter of newly added claims 11-18 would not have been obvious over any of the applied references or over any combination thereof.